Environment

TIMES	time step control of the output
VERSN	version number and title
EAMB	external ambient
TAMB	ambient inside the structure
WIND	scaling rule for wind effects

Properties of the main fire (0)

CHEMI	miscellaneous parameters for kinetics
LFBO	compartment of fire origin
LFBT	type of fire (1)
LFPOS	position of the fire in the compartment
FAREA	area of the base of the fire
FHIGH	height of the base of the fire
FMASS	pyrolysis rate
FPOS	exact position of the fire using x, y, z coordinates
FQDOT	heat release rate
FTIME	points of time on the fire timeline
CO	CO/CO_2 mass ratio
CT	fraction of fuel which is toxic
HCL	hcl/pyrolysis mass ratio
HCN	hcn/pyrolysis mass ratio
HCR	hydrogen/carbon mass ratio of the fuel
OD	C/CO_2 mass ratio
O2	ratio of oxygen to carbon in the fuel

Other objects which reference the object datafile (objects.df)

OBJECT	additional objects to be burned
OBJFL	alternative object database file

Windows and doors (vertical vents which allow horizontal flow)

HVENT	specify vent which connect compartments horizontally
CVENT	opening/closing parameter

Holes in a ceiling/floor (horizontal vents allowing vertical flow)

VVENT	specify a vent which connects compartments vertically (only opened or closed)

Compartment information

DEPTH	depth of compartments
HEIGH	interior height of a compartment
WIDTH	width of the compartments
HI/F	absolute height of the floor of a compartment

alternatively

ROOMA	specify room cross-sectional area as a function of height
ROOMH	specify room heights corresponding to areas specified with ROOMA

Thermophysical boundary properties

CEILI	specify name of ceiling descriptor(s)
WALLS	specify the name of wall property descriptor(s)
FLOOR	specify the name of floor property descriptor(s)
THRMF	alternative thermal properties file (thermal.df)

Miscellaneous commands

HALL	specify corridor flow model
HHEAT	heat transfer between connected compartment walls
SHAFT	specify single zone model for a compartment
CFCON	ceiling floor heat conduction
CJET	ceiling jet
DETECT	fire detection and suppression
TARG	specify a simplified wall surface target
TARGET	specify targets for calculation of local surface temperature and flux
DUMPR	specify a file name for saving time histories

HVAC specification

INELV	specify **interior** node elevations (for ventilation ducts)
MVDCT	describe a piece of (circular) duct work
MVFAN	give the pressure - flow relationship for a fan
MVOPN	Specify an opening between a compartment and ventilation system

For examples of the use of these parameters, please see DataFileFormatExamples